

US-PAT-NO: 6442748

DOCUMENT-IDENTIFIER: US 6442748 B1

TITLE: System, method and article of
manufacture for a persistent state and persistent
object separator in an information services patterns
environment

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Detailed Description Text - DETX (2423):

It is important to note the difference between assertions and standard error-handling. Assertions are condition checks that can be turned on and off during runtime whereas standard error handling is always enabled. This is because assertions must always be true. The burden is on the testing process to catch all failed assertions. Thus, a failed assertion should simply never happen in deployed code. However, exceptions can happen, and therefore cannot simply be turned off.

Detailed Description Text - DETX (2424):

Benefits Ease of Error Identification. Many error are caused by invoking an operation with improper data (parameters). By formalizing these conditions, it is very obvious is an error was caused by bad data or bad code. Correctness. Properly placed assertions assure that the system is in a correct state and responses can be trusted. Assertion checking complements, but does not replace, a comprehensive testing program. The responsibility remains with the designer to identify the correct conditions to assert. Consistency. All

checks will be made and handled in a similar fashion. Control. The enabling and disabling features of the Assertion allows an operations controller to determine when and what checks should be made at runtime rather than development time. Flexibility. All handling and clean-up of incorrect assertions is located in one place making changes to this logic much easier to implement. Readability. Policies concerning how assertions are actually thrown and handled is not in the functional code. Documentation. The code actually documents the design assumptions. This can also be used by documentation generators which read through the code.

Current US Original Classification - CCOR (1):
717/108

L Number	Hits	Search Text	DB	Time stamp
1	0	"#pragma" with if	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/04 12:00
2	0	"#pragma" with "if"	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/04 12:00
3	77	"#pragma" and 717/\$.ccls.	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/04 12:00

L Number	Hits	Search Text	DB	Time stamp
1	557	test\$3 with assertion\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/04 09:35
2	32	(test\$3 with assertion\$1) and 717/\$.ccls.	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/04 10:25
3	7	("5758061" "5956758" "5961636" "6076158" "6108773" "6108777" "6173440").PN.	USPÄT	2004/03/04 09:58
4	311	717/124.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/04 10:26
5	192	717/130.ccls.	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/04 10:26
6	226	717/131.ccls.	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/04 10:26
7	43	717/132.ccls.	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/04 10:26
8	646	714/48.ccls.	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/04 10:26
9	168	714/52.ccls.	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/04 10:26